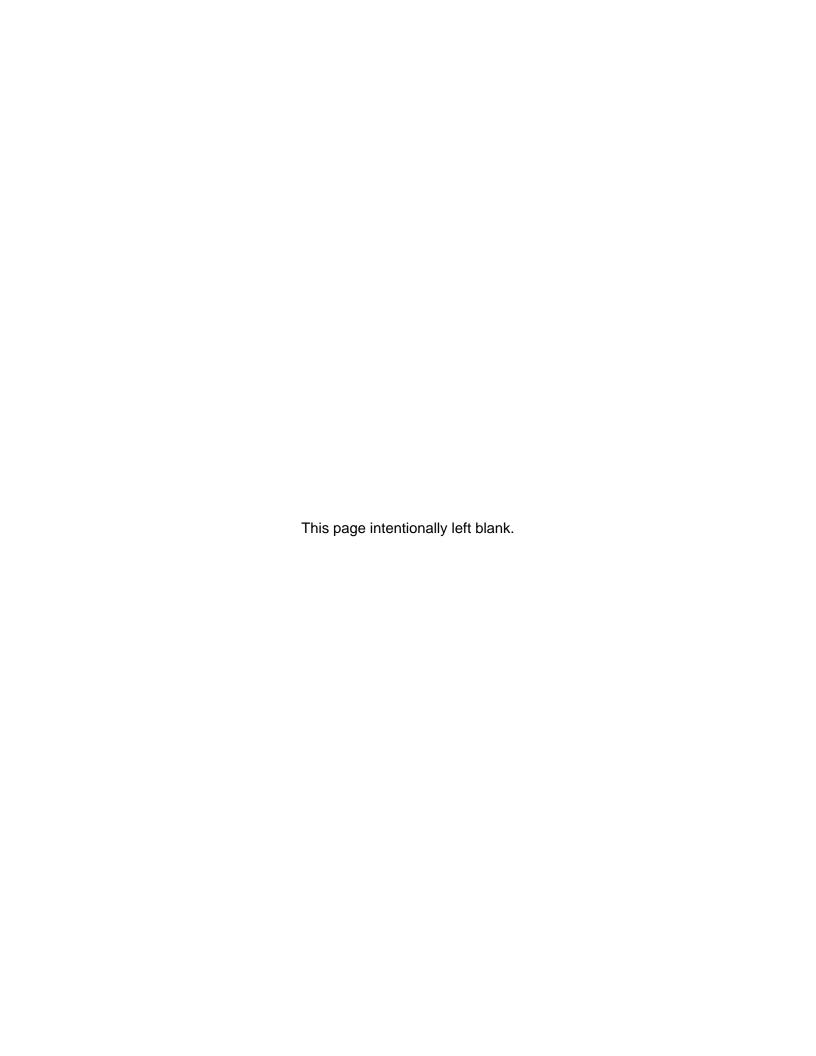
## **Appendix BB**

## NPDES CAFO Permit NMP Nine Minimum Standards Review Checklist



## NPDES CAFO Permit NMP Nine Minimum Standards Review Checklist The checklist is composed of three parts which are to be completed as follows: Part A Summary Information Documents critical information concerning the operation. Part B Detailed Plan Review and On-Site Inspection Checklist To be completed when reviewing a plan or during an on-site inspection of the operation. Part A - Summary Information 1. Plan Preparer Certification 2. Type of Operation Is the facility operated ☐ Year Round □ Seasonally Is the operation □ Open lot □ Partially enclosed □ Fully enclosed. Notes: • Does the description of the facility in the plan reflect the description of the facility in the application/NOI/Fact Sheet/Permit? ☐ Yes ☐ No 3. Facility Maps Does the plan include maps that identify topography, soil types, confinement areas, manure and wastewater storage, raw material storage, handling, and treatment facilities, and environmentally sensitive areas (sinkholes, wells, drinking water sources, field tile drain outlets) for the production area and all land application areas owned or under the ownership, rental, lease, other legal arrangement of the CAFO operator? • Does the plan identify the watershed(s) in which the operation is located including latitude and Is this watershed listed on the States list of impaired watersheds? ...... □ Yes .....□ No If yes, what impairments are identified?\_\_\_ ◆ Is this facility located in a state designated source water protection area? ...... □ Yes ..... ◆ Are there any other water quality problems in this watershed?

a	A - 5 5 -		
<i>4</i> .	<ul><li>Animals</li><li>What type of animals are confined at the facility?</li></ul>		
	☐ Beef (slaughter/feeder)	□ Chicken – Layer	
	☐ Dairy	☐ Chicken — Broiler	
	☐ Swine	☐ Sheep/lambs	
	□Turkey	□ Horse	
	☐ Other	□ Duck	
	What is the design capacity by animal type?		
	☐ Beef (slaughter/feeder)	☐ Chicken – Layer	
	☐ Dairy	☐ Chicken – Broiler	
	☐ Swine		
	☐ Turkey		
	☐ Other		
	<ul> <li>Is the plan based upon the design capacity?</li> </ul>		□ Yes □ No
	If no what capacity is the plan based upon?	7	
			<del></del>
			en
	Does the plan identify the size (acres) of the produ	uction area? ☐ Yes acres ☐ N	~ !o
5.			••
9,4	<ul> <li>What are the manure generation rates for N, P, an</li> </ul>	-,-	
	Animal Type 1 Nlbs/Yea		ihs/Year
	Animal Type 2Nlbs/Yea		
	Animal Type 3		
	-		100/100/
	<ul> <li>What are the manure generation rates for N, P, an</li> <li>Current year manure analysis from this or</li> </ul>	· ·	
	☐ Historical manure analysis from this oper		
	,		1
	-		-1
	<ul> <li>Are the generation rates for N, P, and K generally Management Field Handbook?</li> </ul>		□ Yes □ No
	If no, are other practices in place that accou	ınt for the rates included in the plan?	□ Yes □ No
	What are the practices identified in the plan	? ☐ Feed Man	agement □ Other
	Explain:		···
			_
			_
	If no, are atmospheric N losses used in the	plan excessive?	□ Yes □ No

Questions where a "no" answer may indicate that the facility may be in violation of permit requirements. A "no" answer may also indicate that the NMP is deficient.

			·····			<del></del>				
6.	Manure Utilization Options  ◆ What manure utilization options are identified in the plan? (Note if more than one option is identified									
	•				stewater utilized un	. ,				
	Land App	lication					'es	%	🗆 No	
					control of the app the CAFO?		ble for			
					nservation mana s, field number, ac				🗆 No	X
	Composti	ng				🗆 Ү	es	%	🗆 No	
	Incinerati	on	*******************		********************	a \	'es	%	🗆 No	
	If yes, doe	s the plan a	ddress what is d	one with the	e remaining ash					
					***************************************			% ,.	□ No	
		/10.004								:
	<ul> <li>Is manure generation</li> </ul>		CAFO sold/given	away for u	se at another loca	ition not associat	ed	i Yes	🗖 No	:
	If ves, wha	at is the estin	nated amount tra	ansferred a	nnualty?	tons				
7	Crop Productio				, <u></u>					:
	• Does the plan ide		crops are produc	ed?			C	l Yes	🗆 No	M
										₩.₩;
	<ul> <li>Does the plan ide</li> </ul>							l Yes	П Мо	
	•	-	-	•	***************************************			. 100	140	:
	wildt 19 tii	e crop rotat	OH!							
	1400.411.0000.41411111.400.411111.0000.5		IVVIIIIAALI PIZAI EZIAI IZAIAR IIZAIAIRAEZIEI PIPAR	7A*VP384 \$\$A\$V\$188\$A*VV# \$*\$A\$V**	ATATAMET BY BUYER TRANSPORTER VERSION HAVE BAST HAVE BUST HAVE	ELWOODAELVII IREALE TAANII HARREELIVEI IEHEVISERI	1/VL02-11/00000000			
	Homestill Associate/Temociate A II Associate		HITSANA AHINAMA II AMARAN II IRFEFFI AMARINA AHIAMA	vanvawawawawa		III.A. MARINA III.A. III.A				
	Does the plan ide	entify cropp	ng practices?				C	I Yes	□ No	
	If yes, wha	at are they?	☐ Ridge Till		rvation Tillage					
	- Dana							3 \	ET N.	
	Does cropping sy		-					i res	LI NO	
	If yes, wha	it type:	☐ Flood ☐ Overland		☐ Sprinkler					
			☐ Ridge and fur	2001	☐ Center Pivot ☐ Traveling Gur					
			•		**		_			
	<ul><li>Is crop/rotation in</li></ul>									
	<ul> <li>Are realistic crop</li> </ul>	yield goals	identified in the	plan?	***************************************		C	1 Yes	🗆 No	
	<ul><li>What source of i</li></ul>	nformation	was used by to d	letermine tl	ne realistic yield g	joals for this ope	ration?			
		ecords (Cir	<i>cle One:</i> last ye:	ar's crop ar	nd production, 3	8-year average,	5-year	averaç	je)	
	□USDA			,	ALUES, MASCAF	<sup>?</sup> )				
	☐ County /	Averages	☐ Previous	crop insura	nce records					
	<ul> <li>Is adequate justit</li> </ul>	fication prov	rided to support t	he yield go	al	·····	C	l Yes	🛘 No	

X = Questions where a "no" answer may indicate that the facility may be in violation of permit requirements. A "no" answer may also indicate that the NMP is deficient.

8. Nutrient Application  • Does the plan identify the basis/rationale for determining an N-based or P-based application rate?	🛘 Yes 🗘 No 🗶
What is the basis?   State Regulations/Nutrient Management Technical Standard	
■ Does the plan identify the application method?  If yes, what method is used: □ Surface applied □ Injected □ Incorporated	🗆 Yes 🗆 No 🗶
Does the NMP reference the correct State Nutrient Management Technical Standard identified in the permit?	
<ul> <li>Does the plan include land application areas that are N-based and others that are P-based?</li> </ul>	□ Yes □ No
9. 25-Year, 24-Hour Storm Information*	
Does the plan utilize the correct 25-Year, 24-Hour rainfall amount for the location of this operation to determine storage requirements?*	🗆 Yes 🗀 No 🗶
Note source of information	
* Some facilities are required to design storage impoundments based on a 100-year, 24-hour st	
Part B - Detailed Plan Review and On-Site Inspection Checklist.	
Minimum Standard #1 Ensure Adequate Storage Capacity	***************************************
Plan Review	
Does the plan identify the volume and duration of storage required for the facility?	
<ul> <li>Does the storage volume in the plan account for manure and process wastewater in addition the collection of runoff and the 25-year/24-hour storm event for the CAFO location?</li> <li>(Note: New source swine, poultry, and veal operations use a 100-year/24-hour storm)</li> </ul>	
Are storage structures constructed and operated in accordance with the ELG?	
Does the plan include a schedule for cleaning out the storage structures or solids removal for liquid storage structures?	
Does the plan require maintenance for all storage structures?	🗆 Yes 🗇 No 🗶
On-Site Inspection	* "
Is a depth marker in place in all lagoons and other appropriate storage structures?	🛘 Yes 🗘 No 🗶
Is adequate lagoon storage volume being maintained?	🗆 Yes 🗆 No 🗶
Is the length of storage documented in on-site records consistent with storage practices identified in the plan?	* -

Minimum Standard #2 Ensure Proper Management of Mortalities				
Plan Review				
Is animal mortality addressed in the plan.	🗆 Yes 🗆 No 🗶			
If yes, what methods are identified in the plan to address animal mortality? ☐ Rendering ☐ Incineration ☐ Composting ☐ Disposal pi ☐ Landfill ☐ Other	ts			
Does the plan address mortality storage prior to final disposition?	□ Yes □ No			
Is the mortality rate used in the plan consistent with USDA expected values for the animals confined at the operation?				
Does the animal mortality plan meet State requirements?	□ Yes □ No 🗶			
On-Site Inspection				
Are the animal mortality disposal methods and equipment identified in the plan in place and being properly implemented?	☐ Yes ☐ No 🔏			
Minimum Standard #3 Divert Clean Water From Production Area				
Plan Review  • Does the plan include provisions that address the diversion of clean water from the				
production areas?				
If no why?	·			
	•			
If no, is the runoff being collected and is storage of runoff adequate? (See Minimum Standard No. 8)				
Does the plan require periodic visual inspection to verify proper and functional diversion?				
Does the plan address the maintenance of diversion structures?	□ Yes □ No			
On-Site Inspection				
Are the diversion provisions identified in the plan being properly implemented?	□ Yes □ No			
Is the storage capacity sufficient for all non-diverted runoff?	□ Yes □ No			
Are records of periodic inspections being maintained?	□ Yes □ No			
<ul> <li>How often are operator inspections being conducted? (Circle one: Daily Weekly Month)</li> </ul>	y)			
Minimum Standard #4 - Prevent Direct Contact				
Plan Review				
Does the facility or topo map identify any surface water in the production area?	□ Yes □ No			
If yes, are measures in the plan to prevent direct contact?	🗆 Yes 🗆 No 💥			
What are the measures identified in the plan? ☐ Fences ☐ Other				
On-Site Inspection				
Is there surface water in the production area?	□ Yes □ No			
<ul> <li>Are the measures identified in the plan being implemented and maintained to prevent direct contact</li> </ul>	? 🗆 Yes 🗆 No 🗶			
Are there any animals in contact with surface water in the production area?	□ Yes □ No			

Minimum Standard #5 Chemical Handling	késannkokkanskantannannnikemakaisoo (ki kenisisia mikosonna punkimiese erturk
Plan Review	
<ul> <li>Has the facility incorporated measures (in accordance with applicable laws and regulations) to prevent the mishandling of pesticides, hazardous and toxic chemicals, and petroleum products/by-products from contaminating manure and wastewater?</li> </ul>	🗆 Yes 🗅 No
If no, explain:	-
On-Site Inspection	
Are the measures identified being implemented?	□ Yes □ No
<ul> <li>Is there any evidence of mishandling of pesticides, hazardous and toxic chemicals, and petroleum products/by-products contaminating manure and wastewater storage.</li> </ul>	., 🗆 Yes 🗆 No
Notes:	••
Minimum Standard #6 Conservation Practices to Reduce Nutrient Loss	
Plan Review	
Does the plan include the use of best management practices (BMPs) to control runoff from the:	
Production area	
Land application area(s)	LI Yes LI NO
Do the plan and facility maps identify the specific areas that the BMPs are to be applied?	
Land Application Areas Production Area	
☐ Vegetated Buffers (Type of vegetation) ☐ (Type of vegetation)	
□ Diversion □	
☐ Grassed Waterway (Type of vegetation)	
☐ Strip Cropping	
☐ Residue Management	
☐ Terracing	
☐ Conservation Tillage	
<ul> <li>If any of these BMPs are being used does the plan specify how they are to be implemented?</li> </ul>	., 🛮 Yes 🗘 No
If yes, what does the plan require?	du.
	_
◆ What references are cited for the practices? □ USDA Practice Standards □ State Standards □ Standards □ Standards □ State Standards □ Standards	
☐ Other(Note: to be used to verify proper implementation	n)
Does the plan include O&M requirements for practices used to reduce nutrient loss?	□ Yes □ No
On-Site Inspection	
Are the nutrient loss minimization practices in the plan being properly implemented?	🛘 Yes 🗆 No 🗶
If buffers are being used, are the widths in agreement with those identified in the plan?	□ Yes □ No
Is there any evidence of buffers being breached by waste or evidence of erosion?	□ Yes □ No

Minimum Standard #7 Protocols for Manure and Soil Testing				
Plan Review				
Does the plan include specific protocols for the sampling and analysis of manure, wastewater and soil for determining nutrient content?□ Yes□ No				
◆ Are these protocols recognized by the State or identified in the State Nutrient Management     Technical Standard? □ Yes □ No				
• Does the plan identify the sampling frequency for manure and soil sample analysis? 🗆 Yes 🗅 No 🗶				
(At a minimum manure samples are to be taken annually and tested for nitrogen and phosphorous and soil samples taken and tested for phosphorous at least once every 5 years.)				
On-Site Inspection				
<ul> <li>◆ Were the manure/wastewater and soil samples taken within 12 months of developing the site-specific NMP?</li> <li>☐ Yes ☐ No</li> </ul>				
■ Have manure and soil samples been collected at a frequency that is consistent with permit requirements? □ Yes □ No				
◆ Are the sampling protocols consistent with permit requirements or those specified in the state nutrient management technical standard? □ Yes □ No				
(At a minimum manure samples are to be taken annually and tested for nitrogen and phosphorous and soil samples taken and tested for phosphorous at least once every 5 years.)				
◆ Are the results of the sample analysis consistent with the content and analyses of the NMP? □ Yes □ No				
Minimum Standard #8 - Protocols for Land Application of Manure and Wastewater				
Plan Review				
<ul> <li>What is the number of acres owned/acres leased or subject to an access agreement to be used</li> </ul>				
for land application identified in the plan?acres ownedacres leasedacres applied				
<ul> <li>Does the plan identify weather and soil conditions under which application activities will not be conducted (e.g., frozen ground)?</li> </ul>				
Does the plan include a proper analysis to determine whether application rates are to be based upon N or P for each management unit?□ No				
■ Is the analysis consistent with the State Nutrient Management Technical Standard identified in the permit or approved by the Director of the permitting authority?□ Yes□				
Does the plan take into account other sources of nutrients used at the operation? □ Yes□ No				
If yes, what other sources of nutrients have been accounted for:				
☐ Commercial Fertilizer ☐ Biosolids				
☐ Bedding ☐ Legume Credits				
☐ Wastewater ☐ Previous manure applications				
□ Other				
● Does the plan include the application of wastewater to fields via an irrigation system? ☐ Yes ☐ No				
If yes:				
→ Does the plan identify the type of irrigation system? □ Yes □ No				
→ Are the nutrients contributed by the irrigation system accounted for in the nutrient budget for the operation? □ Yes □ No				
→ Does the plan include provisions to minimize ponding or puddling of wastewater on land application fields? □ No				
→ Does the plan address the management of drainage water to prevent surface or ground water contamination? □ Yes □ No				

<ul> <li>Does the plan identify the crop rotation system, crop nutrient requirements based on soil testing, realistic yield goals*, and crop nutrient removal?</li> </ul>	. □ Yes □ No 🗶
<ul> <li>Does the plan include restrictions or adequate management practices to prevent water pollution from the application of manure/wastewater to flooded, saturated, frozen, or snow covered ground?</li> </ul>	. □ Yes □ No
Does the plan address specific pumping and clean out schedules for all liquid storage structures?	. □ Yes □ No
<ul> <li>Does the plan require records to be maintained that document the date, location, weather, and application rate of manure and wastewater that is land applied?</li> </ul>	□ Yes □ No 🗶
<ul> <li>Is there sufficient land owned or under the control of the operator to properly utilize all manure and wastewater generated by the operation?</li> </ul>	. □ Yes □ No
If no:  → Does the plan identify the quantity of excess manure being generated?tons/	- * *
→ Does the plan identify how the excess manure is to be utilized?	<del>-</del>
→ Is excess manure/wastewater to be transferred off-site?	. 🗆 Yes 🗆 No
If yes:	
→ Does the plan include the necessary arrangements for this transfer?	. □ Yes □ No
→ Does the plan identify the recipients?	. □ Yes □ No
Does the plan address the maintenance of land application equipment?	. □ Yes □ No
Does the plan identify the manure application method to be used?	. □ Yes □ No
Does the plan require periodic calibration of manure application equipment.	. □ Yes □ No
Are the application rates identified in the plan appropriate?	
Notes:	
ivacs:	
On-Site Inspection	
<ul> <li>Does the plan reflect the current operational characteristics (number of animals, cropping, etc.)?</li> </ul>	Y 🗆 Yes 🗆 No 🗶
<ul> <li>Are the number of acres owned/acres leased consistent with those identified in the plan?</li> </ul>	. 🛘 Yes 🗆 No 🗶
Is the crop rotation consistent with that identified in the plan used to determine application rates and timing?	. □ Yes □ No
• Is the application equipment being used consistent with the equipment identified in the plan?	. □ Yes □ No
Is the land application equipment being used appropriate?	□ Yes □ No
Is the amount of manure/wastewater being transferred off-site consistent with the amount identified in the plan?	. □ Yes □ No
Are records (name and address of recipient and amount) of off-site manure disposal being maintained (if required)?	. □ Yes □ No
<ul> <li>Is manure and wastewater being applied within a 100' setback or within a 35' vegetated buffer to any down gradient surface waters, open tile line intake structures, agricultural well heads or other conduits to surface waters?</li> </ul>	
* or other documented recommendation from local extension or other source)	

Minimum Standard #9 - Recordkeeping			
Plan Review			
<ul> <li>Identify the required records that the plan identifies are to be maintained at the facility.</li> </ul>			
☐ Manure and wastewater sample nutrient analysis results			
☐ Soil sample analysis results that the plan was based upon for all land application areas (Dates of sample://,//,//)			
☐ Manure/wastewater storage - date of emptying, level before emptying, and level after emptying, or quantity removed (dry manure)			
☐ Storage facility level (weekly)			
<ul> <li>Inspection log (stormwater diversions, runoff control structures, water lines, surface impoundments, and manure application equipment)</li> </ul>			
<ul> <li>Maintenance log of all equipment necessary to control discharge and meet permit requirements (e.g., maintenance of land application equipment)</li> </ul>			
☐ Crop planting/harvest dates by field or CMU			
☐ Crop type and yield by field or CMU - bushels/acre (seasonally)			
□ Total amount of N and P applied - date, time, and rate (lbs/acre, gallons/acre), weather condition, application method, and equipment used by field or CMU (daily)			
☐ On-site precipitation			
☐ Animal Inventory			
☐ Lease/Rental/Access Agreements for all land not owned by the operator			
☐ Name and address of recipients and quantity of manure transferred off-site			
◆ Does the plan require any additional records be maintained at the facility?			
● Does the plan include an emergency action plan to address spills and catastrophic events? □ Yes □ No			
On-Site Inspection  ◆ Are all of the records identified in the plan being maintained and kept current?			
If no, explain:			
● Are records being maintained at the required frequency?			
■ Are records being maintained on-site for the period required by the permit? □ Yes □ No  If no, explain:			
■ Do the records include the date, time and estimated volume of any overflows? □ Yes □ No			

Plan Adequacy/Discharge Potential	Material School Control of the Contr
Is the plan adequately addressing the storage, handling, and application of manure and wastewater to prevent the discharge of pollutants to waters of the US?	□ Yes □ No 🗶
• Is there evidence of a past discharge?	□ Yes □ No
If yes, what evidence was identified?	*****
If yes, what evidence was identified?  If yes, what evidence was identified?	 □ Yes □ No 
Is there a risk of a future violation of permit conditions?  If yes, what is the basis for this determination?	
Does the plan require revision?  If yes, what specific components of the plan require revision?	
Additional Comments:	
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	any decision of the decision of the transfer of the decision o